Petrothene

NA960

Low Density Polyethylene
Film Extrusion Grade
Melt Index: 1.0 Density: 0.920

Applications

Petrothene NA960 is a series of resins selected by customers for use in a wide variety of industrial film applications where high impact strength and excellent drawdown are needed. NA960 exhibits good uniformity, ease of processing and good tensile strength.

Regulatory Status

The base resin NA960 meets the requirements of the Food and Drug Administration regulation, 21 CFR 177.1520. This regulation allows the use of this olefin polymer "... in articles or components of articles intended for use in contact with food..." Specific limitations or conditions of use may apply. Contact your Equistar product safety representative for more information.

Processing Techniques

Specific recommendations for processing NA960 can be made only when the end use applications, required properties and processing equipment are known.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	1.0	g/10 min	D1238
Base Resin Density	0.920	g/cc	D1505
Vicat Softening Point	92	°C	D1525
Film*			
Dart Drop Impact Strength, F_{50}	120	g	D1709
Tensile Strength, MD (TD)	3,500 (2,400)	psi	D882
Elongation, MD (TD)	200 (500)	%	D882
Secant Modulus, MD (TD)	29,000 (34,000)	psi	E111
Elmendorf Tear Strength, MD (TD)	300 (130)	g	D1922
Molding[1]			
Tensile Strength	2,100	psi	D638
Elongation @ Break	660	%	D638

Products	NA960000	NA960070	NA960083
Slip (ppm)	None	500	None
Antiblock (ppm)	None	1,000	4,000

* Data obtained from film produced on a 3½" (89 mm) blown film line, commercially available 8" (203 mm) die, 350°F (177°C) melt extrusion temperature, 2:1 BUR, 1.25 mil (32 micron) gauge, 0.025" die gap at 150 lb/hr.

[1] Data derived from type IV specimen, 75 mil plaque @ 20" min.

These are typical values not to be construed as specification limits.